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	Application No.	Applicant(s)		
Notice of Allowability	10/721,253	SAMSOONDAR, JA	MES	
	Examiner	Art Unit		
	Maureen M. Wallenhorst	1743		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. \boxtimes This communication is responsive to <u>the amendment and t</u>	terminal disclaimer received on Marc	<u>:h_14, 2006</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-8, 11, 14-18, 21-32, 9, 12, 19</u>	<u>, 10, 13, 20, 33-44, 52-60, 63-66, 61</u>	1-62, 97 (renumbered	<u>1-60)</u> .	
3. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the:				
1. Certified copies of the priority documents have				
2. Certified copies of the priority documents have				
Copies of the certified copies of the priority do	cuments have been received in this i	national stage applica	tion from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
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Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of this application.	complying with the red	quirements	
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or N tion is deficient.	OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) including changes required by the Notice of Draftspers		948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		ffice action of		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing he header according to 37 CFR 1.121(c	ngs in the front (not the	back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT Report Processing Section 1985. 	sit of BIOLOGICAL MATERIAL n	nust be submitted. N	lote the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Page	atent Application (PT)) 152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	• • • • • • • • • • • • • • • • • • • •	J-132)	
	Paper No./Mail Date	ė		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8), 7. 🗵 Examiner's Amendr	7. X Examiner's Amendment/Comment		
	8. X Examiner's Stateme	8. Examiner's Statement of Reasons for Allowance		
	9. Other			

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dawn Russell on May 19, 2006.

Claims 4, 12, 13, 19, 20, 33, 43 and 44 were changed as follows:

- 4. (Currently amended) The method of claim 2, wherein said one or more one analyte is an indicator of hemolysis, and in said step of measuring (step i)) said spectral segment is selected from wavelengths of said absorbance spectra of from about 550 nm to about 650 nm, said indicator of hemolysis selected from the group consisting of total hemoglobin (total Hb), oxyhemoglobin (Oxy-Hb) Oxy-Hb, and "total hemoglobin minus met-hemoglobin" ("total Hb minus met-Hb").
- 12. (Currently amended) The method of claim 9, wherein said quality control material <u>comprises</u> one or more than one of a perflurocarbon-like blood substitute, and a lipid emulsion, and further comprises one or more than one substance, said one or more than one substance selected from the group consisting of a dye, copper sulfate, total hemoglobin (total-Hb), oxy-hemoglobin (Oxy-Hb), carboxy-hemoglobin (carboxy-Hb), "total hemoglobin minus met-hemoglobin" ("total

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Hb minus met-Hb"), cyanmet-hemoglobin (cyanmet-Hb), and a hemoglobin-based blood substitute, a lipid emulsion, and a perfluorocarbon-like blood substitute.

13. (Currently amended) The method of claim 10, wherein said quality control material comprises one or more than one of a perfluorocarbon-like blood substitute, and a lipid emulsion, and further comprises one or more than one substance, said one or more than one substance selected from the group consisting of a dye, copper sulfate, total hemoglobin (total-Hb), oxyhemoglobin (Oxy-Hb), carboxy-hemoglobin (carboxy-Hb), "total hemoglobin minus methemoglobin" ("total Hb minus met-Hb"), cyanmet-hemoglobin (cyanmet-Hb), and a hemoglobin-based blood substitute, a lipid emulsion, and a perfluorocarbon-like blood substitute.

- 19. (Currently amended) A reagentless method for determining the concentration of one or more than one analyte of a perfluorocarbon-like blood substitute, turbidity, or a combination thereof in a sample in a spectrophotometric apparatus comprising at least one primary calibration algorithm comprising:
- i) monitoring calibration of said apparatus as defined in claim 9;
- ii) measuring absorbance values of said sample;
- iii) calculating an order derivative of absorbance of said sample; and
- iv) calculating a concentration of one or more than one of said perfluorocarbon-like blood substitute, said turbidity, or a combination thereof, wherein said turbidity is measured in concentration units of a lipid emulsion, by applying said primary calibration algorithm to said

order derivative of absorbance value.

20. (Currently amended) A reagentless method for determining the concentration of one or more than one analyte of a perfluorocarbon-like blood substitute, turbidity, or a combination thereof in a sample in a spectrophotometric apparatus comprising at least one primary calibration algorithm comprising:

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- i) monitoring calibration of said apparatus as defined in claim 10;
- ii) measuring absorbance values of said sample;
- iii) calculating an order derivative of absorbance of said sample; and
- iv) calculating a concentration of one or more than one of said perfluorocarbon-like blood substitute, said turbidity, or a combination thereof, wherein said turbidity is measured in concentration units of a lipid emulsion, by applying said primary calibration algorithm to said order derivative of absorbance value.
- 33. (Currently amended) A method for selecting one or more than one substance as a quality control material for monitoring at least one primary calibration algorithm on a spectrophotometric apparatus comprising:
- i) identifying a principal calibration wavelength for each of one or more than one substance;
- ii) measuring absorbance spectra of said one or more than one substance; and
- iii) selecting one or more than one of said one or more than one substance exhibiting a negative slope in said absorbance spectra, for a continuous spectral segment from about 5 nm to about 200 nm in length, said spectral segment including said principal calibration wavelength for each of

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said one or more than one substance.

43. (Currently amended) A method for selecting one or more than one substance as a quality

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control material for monitoring at least one primary calibration algorithm on a

spectrophotometric apparatus for one or more than one of a perfluorocarbon-like blood substitute

and turbidity, wherein turbidity is measured in terms of concentration units of a lipid emulsion,

comprising:

i) identifying a principal calibration wavelength for each of one or more than one of said

perfluorocarbon-like blood substitute and said turbidity;

ii) measuring absorbance spectra of said one or more than one substance; and

iii) selecting one or more than one of said one or more than one substance exhibiting an

absorbance value within the range from about 700 nm to about 1100 nm, wherein said range

includes said principal calibration wavelength for one or more than one of said perfluorocarbon-

like blood substitute and said turbidity.

44. (Currently amended) A method for selecting one or more than one substance as a quality

control material for monitoring at least one primary calibration algorithm on a

spectrophotometric apparatus for one or more than one of a perfluorocarbon-like blood substitute

and turbidity, wherein turbidity is measured in terms of concentration units of a lipid emulsion,

comprising:

i) identifying a principal calibration wavelength for each of one or more than one of said

perfluorocarbon-like blood substitute and said turbidity;

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- ii) measuring absorbance spectra of said one or more than one substance; and
- iii) selecting one or more than one of said substances exhibiting absorbance spectra as having a negative slope for a continuous spectral segment from about 5 nm to about 400 nm in length within the range of wavelengths from about 700 nm to about 1100 nm, wherein said range includes said principal calibration wavelength for one or more than one of said perfluorocarbon-like blood substitute and said turbidity.
- 2. The following is an examiner's statement of reasons for allowance: Application serial no. 10/721,253 is being allowed in view of the appropriately filed terminal disclaimer received on March 14, 2006. The attorney who signed the terminal disclaimer, Dawn Russell (reg. #44,751), is the same as the original attorney of record, Dawn Hayes, since the registration numbers for both names are the same, thereby indicating that it is the same person. In addition, when speaking on the phone with Dawn Russell to gain approval for the Examiner's Amendment, she confirmed that her name was recently legally changed, and that she also filed the name change with the Office of Enrollment and Discipline. Application serial no. 10/721,253 is also being allowed since none of the prior art of record teaches or fairly suggests a method of monitoring the calibration of a spectrophotometric apparatus comprising one or more calibration algorithms for one or more analytes comprising the steps of measuring the absorbance of a quality control material with the apparatus to obtain a measurement, calculating one or more values from the measurement using the one or more calibration algorithms, and comparing the one or more values to an assigned value given to the quality control material for each of the one or more analytes, wherein the quality control material exhibits an absorbance spectrum characterized as

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having a negative slope for a spectral segment having a length of 5-200 nm, and wherein the spectral segment includes a principal calibration wavelength for the one or more analytes. In addition, none of the prior art of record teaches or fairly suggests a reagentless method for determining the concentration of one or more analytes in a sample in a spectrophotometric apparatus containing calibration algorithms monitored by the above-described method, a method of selecting one or more substances as a quality control material for monitoring the calibration algorithms in a spectrophotometric apparatus, wherein the quality control material exhibits a negative slope for an analyte spectral segment between 5-200 nm in length, and a quality control material containing therein one or more substances that have a combined absorption spectrum with a negative slope for one or more spectral segments of between 5-200 nm in length.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Maureen M. Wallenhorst whose telephone number is 571-272-

1266. The examiner can normally be reached on Monday-Thursday from 6:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jill Warden, can be reached on 571-272-1267. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maureen M. Wallenhorst Primary Examiner Art Unit 1743

mmw

May 19, 2006

Maureen M. Wallenhorst
PRIMARY EXAMINER
GROUP 1200